

Technical Manual



JBL VT4887A

SPECIFICATIONS

ACOUSTIC & ELECTRICAL SPECIFICATIONS:

- Nominal Impedance: 8 Ohms (drivers wired in series-parallel, passive network)
- System Input Power Rating: LF: 1000 W Continuous, 4000 W Peak (AES / 2 hours)
MF/HF: 225 W Continuous, 900 W Peak (AES / 2 hours)
- Frequency Response: 67 Hz- 20 kHz (±3 dB)
- Frequency Range: 55 Hz- 22 kHz (±10 dB)
- Maximum Peak Output: 131 to 141 dB SPL @ 1m (Frequency/Bandpass Dependent)
- Recommended Signal: dbx 4800, Crown I-Tech, BSS FDS-366T, and other Digital System Controllers support
- Recommended Amplification: LF: 1000 - 2000 W into 8 ohms
MF/HF: 450 -900 W into 8 ohms
- Horiz Coverage Angle: 100°, 500 Hz - 16 kHz (-6dB)
- Vert Coverage Angle: Varies with size and configuration(-6dB)
- Crossover Frequency: 415 Hz LF to MF/HF; 2.1 kHz MF to HF (Passive Crossover Network)

SYSTEMS COMPONENTS:

- Cabinet: Enclosure Assembly C4887
- Grille: Left (351533-002), Right (351533-001)
- Low Frequency Transducer: (2) 2168J-1, 203 mm (8") dia., 76 mm (3") Dual Coil, Neodymium Differential Drive, Direct Cooled
- Bandpass Nominal Impedance: 8 ohms (16 ohms each transducers, wired in parallel)
- Input Power Rating: 1000W Continuous, 4000W Peak (AES / 2 hour)

SYSTEMS COMPONENTS (Cont):

- Bandpass Sensitivity: 97 dB, 1W @ 1m (2.83 Vrms 3.3 ft.)
- DC Resistance: 5.2 Ohms
- Mid and High Frequency: Mid: (4) 2104H, 101 mm (4 in) with 25.4 mm (1 in) dia. voice coil
High: (2) 2408H 25 mm (1 in) exit compression driver, 38 mm (1.5 in) voice coil
- Bandpass Nominal Impedance: 8 ohms (drivers wired in series-parallel, passive network)
- Input Power Rating: 225 W Continuous, 900 W Peak (100 Hour)
- Bandpass Sensitivity: 103 dB, 1W @ 1m (2.83 Vrms 3.3 ft.)
- DC Resistance: 4.3 Ohms

AURAL SWEEP TEST SPECIFICATIONS:

- A. System Aural Sweep Test (thru processor measured at the amp out put): 6V, 80 Hz to 20 kHz
- B. LF Woofer Sweep Test: 23.7V, 50 Hz to 2 kHz
- C. MF Woofer Sweep Test: 4V, 200 Hz to 4 kHz
- D. HF Driver Sweep Test: 0.75V, 200 Hz to 20 kHz

PHYSICAL SPECIFICATIONS:

- Enclosure Dimensions: 281 mm x 787 mm x 415 mm D (11 x 31x 16.3 in. D)
- Net Shipping Weight: 67 lbs. (30.4 kg)
- Shipping Weight: 90 lbs. (40.8 kg)

WARRANTY INFORMATION:

- Refer to Warranty Statement packed with each product.

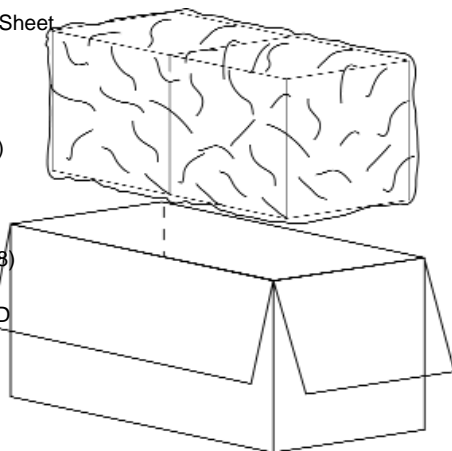
PACKAGE

Warranty 59660
Specification Sheet 360951-001

Filler (2) 351864-001
Microfoam (8) 49790P

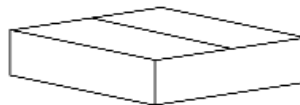
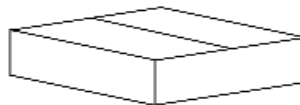
Carton 351863-001
Fiberglass (18) 22389P

Chip FBRBRD 300982-001



Dolly Assembly (VT4887A) 350401-003

Carton 350528-001



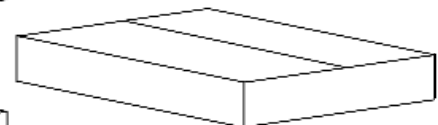
JBL VT4887-SF

Carton 350712-001
Filler (2) 350713-001
Owner's Manual 350485-001

Filler, Top (2) 351400-001

Filler, Bottom (2) 350529-001

Soft Cover 350527-001

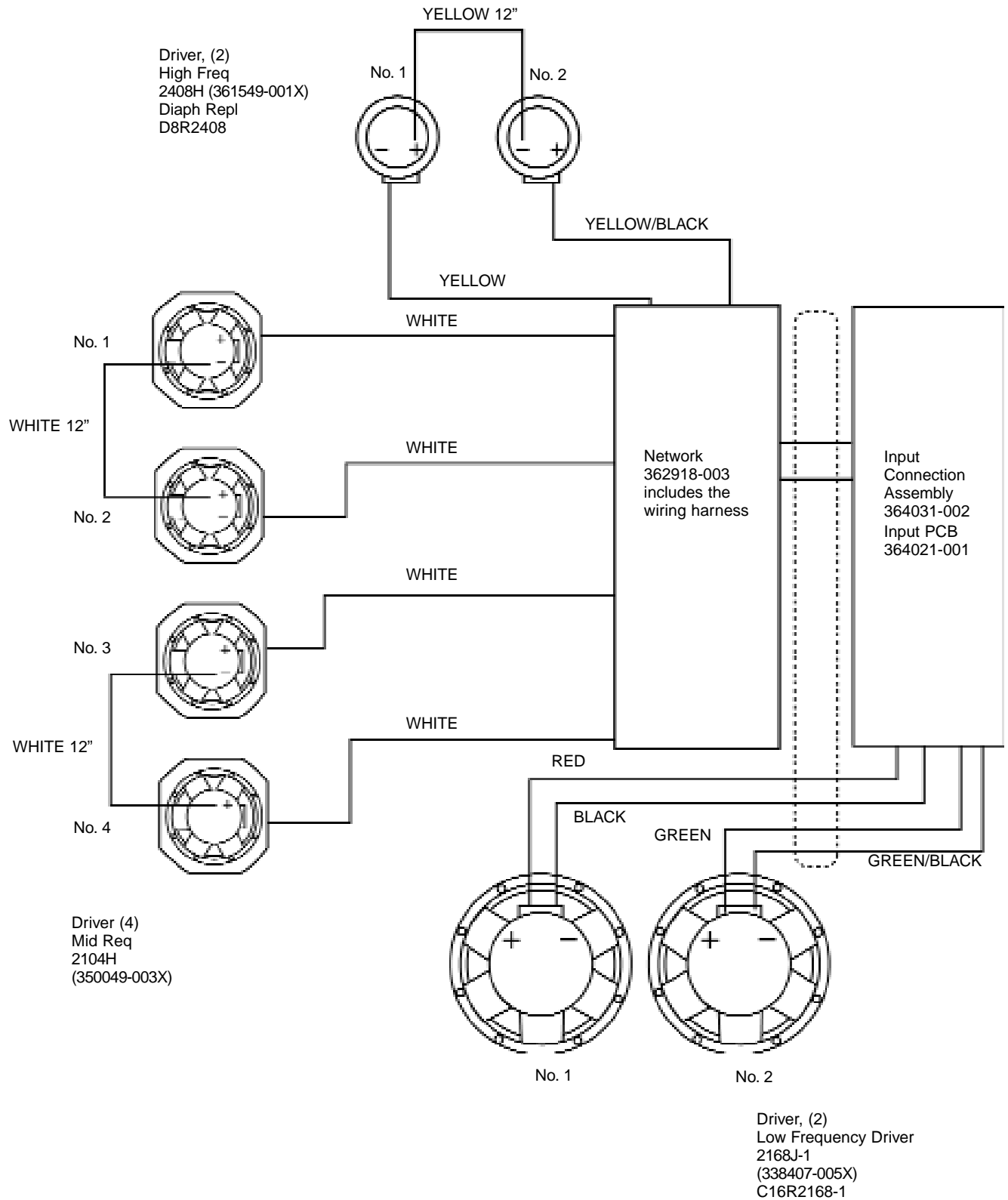


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Carton 350487-001
Filler (2) 350486-001
Owner's Manual 350485-001

JBL VT4887A

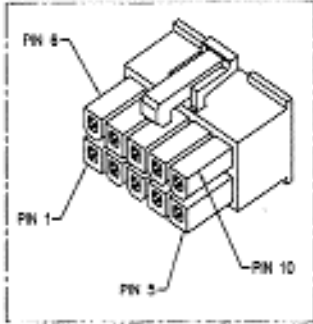
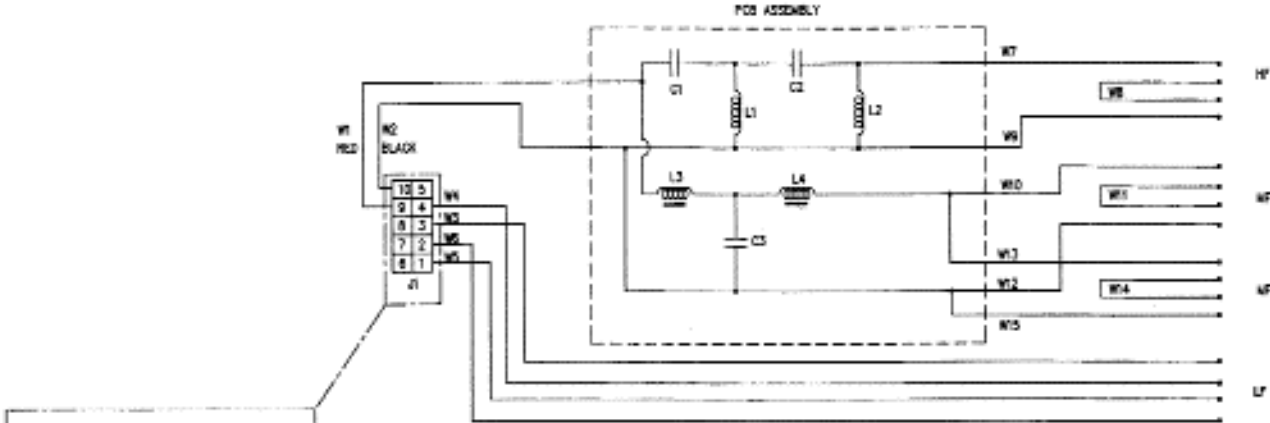
WIRING DIAGRAM



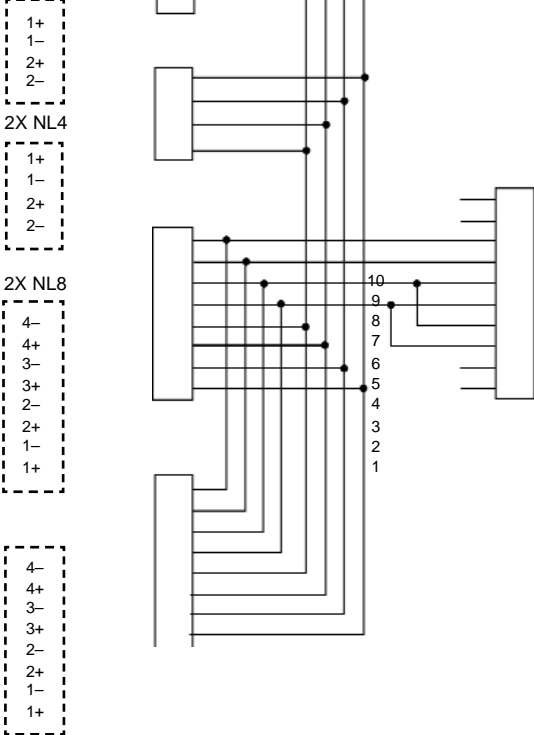
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SCHEMATIC DIAGRAMS

Mid/HF Crossover Network P/N 362918-003



Input Connection Assembly P/N 364021-001

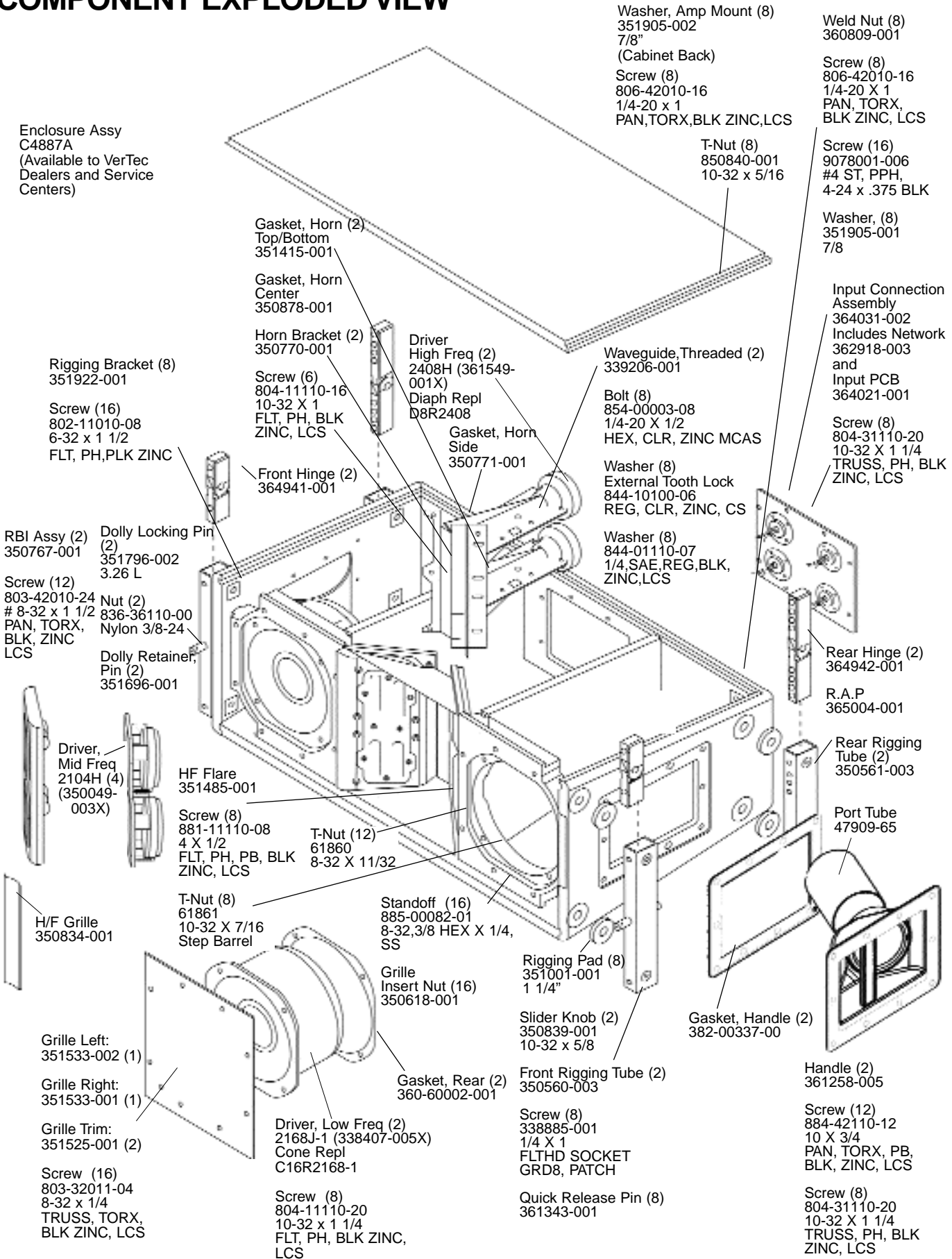


22	12	NYLON NRE TIES	
21	2	NRE, 20" WHI/BLK, 16AWG, FASTON 250 MALE, CSA TYPE TEW	W12, W15
20	2	NRE, 12" BLK, 16AWG, FASTON 250 MALE/FEMALE, CSA TYP TEW	W11, W14
19	2	NRE, 20" WHI, 16AWG, FASTON 250 FEMALE, CSA TYPE TEW	W10, W13
18	1	NRE, 20" YEL, 16AWG, FASTON 187, CSA TYPE TEW	W9
17	1	NRE, 12" BLK, 16AWG, FASTON 187 AND FASTON 250, CSA TYPE TEW	W8
16	1	NRE, 20" YEL/BLK, 16AWG, FASTON 250, CSA TYPE TEW	W7
15	2	NRE, 31" GRN/BLK, 16AWG STRIP TIN, CSA TYPE TEW	W4, W6
14	2	NRE, 31" GRN, 16AWG STRIP TIN, CSA TYPE TEW	W3, W5
13	1	NRE, 15" BLK, 16AWG STRIP TIN CSA TYPE TEW	W2
12	1	NRE, 15" RED, 16AWG STRIP TIN, CSA TYPE TEW	W1
11	5	SFACER, Y1-002	
10	5	RIVET, #5 X 7mm	
9	1	PCB, 5.0" X 8.0" FR-4	
8	1	CONNECTOR, MOLEX #39-01-2105, CABLE MOUNT	J1
7	1	COIL, S82 LAM/CORE, 0.4mH/DCR 0.2 OHM, WRE #1.3mm, ENAMEL MUST BE RATED AT 180°	L4
6	1	COIL, S82 LAM/CORE, 1.2mH/DCR 0.4 OHM, WRE #1.3mm, ENAMEL MUST BE RATED AT 180°	L3
5	1	COIL, AIR CORE 0.7mH, 0.4 OHM DCR, WRE #1mm, ENAMEL MUST BE RATED AT 180°	L2
4	1	COIL, AIR CORE 0.28mH, 0.2 OHM DCR, WRE #1mm, ENAMEL MUST BE RATED AT 180°	L1
3	1	CAPACITOR, 16uF/250V WT J	C3
2	1	CAPACITOR, 5uF/250V WT J	C2
1	1	CAPACITOR, 3uF/250V WT J	C1

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COMPONENT EXPLODED VIEW

Enclosure Assy
C4887A
(Available to VerTec
Dealers and Service
Centers)



Washer, Amp Mount (8)
351905-002
7/8"
(Cabinet Back)

Weld Nut (8)
360809-001

Screw (8)
806-42010-16
1/4-20 X 1
PAN, TORX, BLK ZINC, LCS

Screw (8)
806-42010-16
1/4-20 X 1
PAN, TORX, BLK ZINC, LCS

T-Nut (8)
850840-001
10-32 x 5/16

Screw (16)
9078001-006
#4 ST, PPH,
4-24 x .375 BLK

Washer, (8)
351905-001
7/8"

Input Connection
Assembly
364031-002
Includes Network
362918-003
and
Input PCB
364021-001

Screw (8)
804-31110-20
10-32 X 1 1/4
TRUSS, PH, BLK
ZINC, LCS

Rigging Bracket (8)
351922-001

Screw (16)
802-11010-08
6-32 x 1 1/2
FLT, PH, PLK ZINC

Gasket, Horn (2)
Top/Bottom
351415-001

Gasket, Horn
Center
350878-001

Horn Bracket (2)
350770-001

Screw (6)
804-11110-16
10-32 X 1
FLT, PH, BLK
ZINC, LCS

Driver
High Freq (2)
2408H (361549-
001X)
Diaph Repl
D8R2408

Waveguide, Threaded (2)
339206-001

Bolt (8)
854-00003-08
1/4-20 X 1/2
HEX, CLR, ZINC MCAS

Washer (8)
External Tooth Lock
844-10100-06
REG, CLR, ZINC, CS

Washer (8)
844-01110-07
1/4, SAE, REG, BLK,
ZINC, LCS

Front Hinge (2)
364941-001

Gasket, Horn
Side
350771-001

RBI Assy (2)
350767-001

Dolly Locking Pin
(2)
351796-002
3.26 L

Screw (12)
803-42010-24
8-32 x 1 1/2
PAN, TORX,
BLK, ZINC
LCS

Nut (2)
836-36110-00
Nylon 3/8-24

Dolly Retainer,
Pin (2)
351696-001

Rear Hinge (2)
364942-001

R.A.P
365004-001

Driver,
Mid Freq
2104H (4)
(350049-
003X)

HF Flare
351485-001

Screw (8)
881-11110-08
4 X 1/2
FLT, PH, PB, BLK
ZINC, LCS

T-Nut (12)
61860
8-32 X 11/32

Rear Rigging
Tube (2)
350561-003

Port Tube
47909-65

H/F Grille
350834-001

T-Nut (8)
61861
10-32 X 7/16
Step Barrel

Standoff (16)
885-00082-01
8-32, 3/8 HEX X 1/4,
SS

Rigging Pad (8)
351001-001
1 1/4"

Grille
Insert Nut (16)
350618-001

Slider Knob (2)
350839-001
10-32 x 5/8

Gasket, Handle (2)
382-00337-00

Grille Left:
351533-002 (1)

Grille Right:
351533-001 (1)

Grille Trim:
351525-001 (2)

Screw (16)
803-32011-04
8-32 x 1/4
TRUSS, TORX,
BLK ZINC, LCS

Gasket, Rear (2)
360-60002-001

Front Rigging Tube (2)
350560-003

Screw (8)
338885-001
1/4 X 1
FLTHD SOCKET
GRD8, PATCH

Quick Release Pin (8)
361343-001

Handle (2)
361258-005

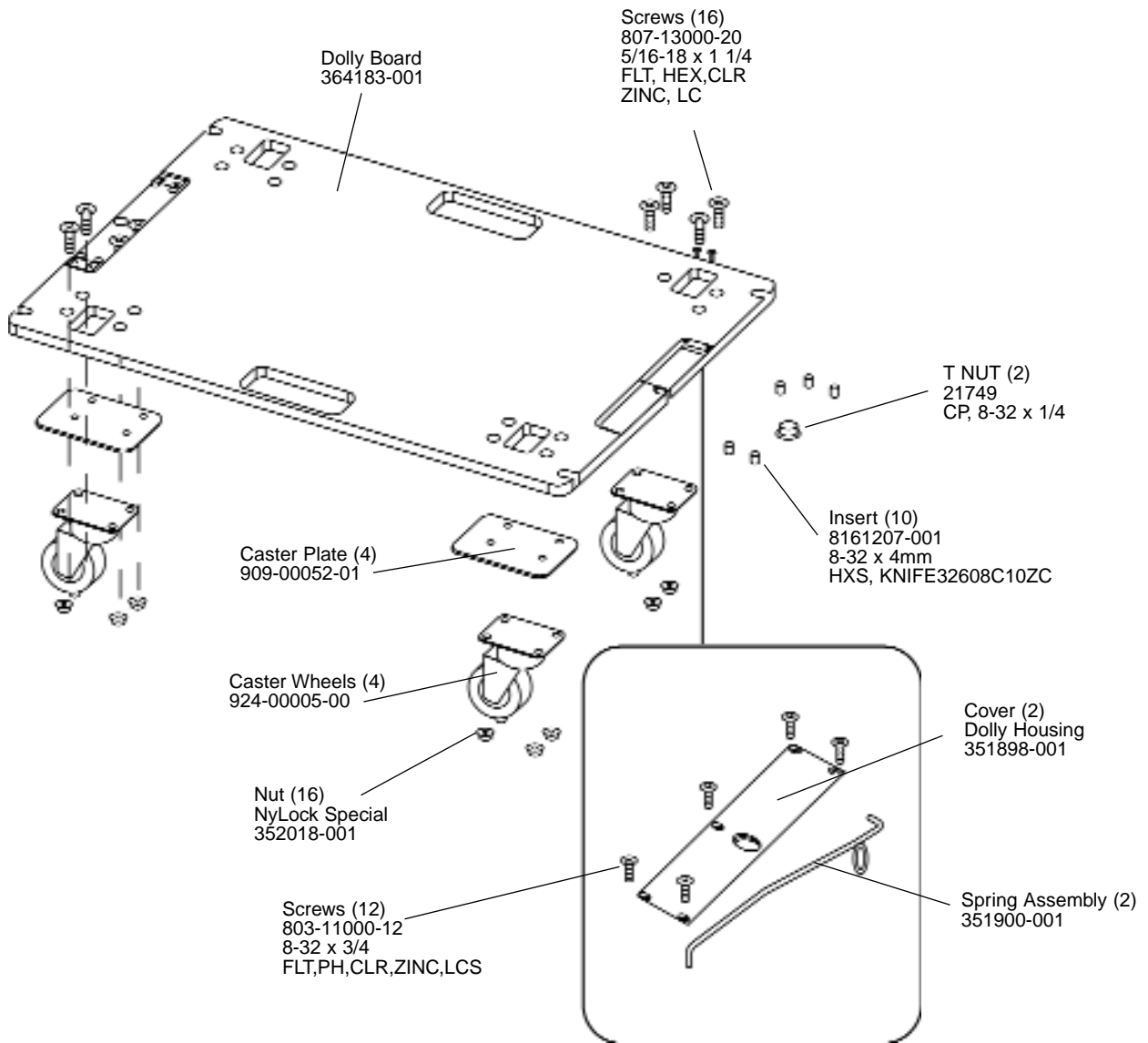
Screw (12)
884-42110-12
10 X 3/4
PAN, TORX, PB,
BLK, ZINC, LCS

Screw (8)
804-31110-20
10-32 X 1 1/4
TRUSS, PH, BLK
ZINC, LCS

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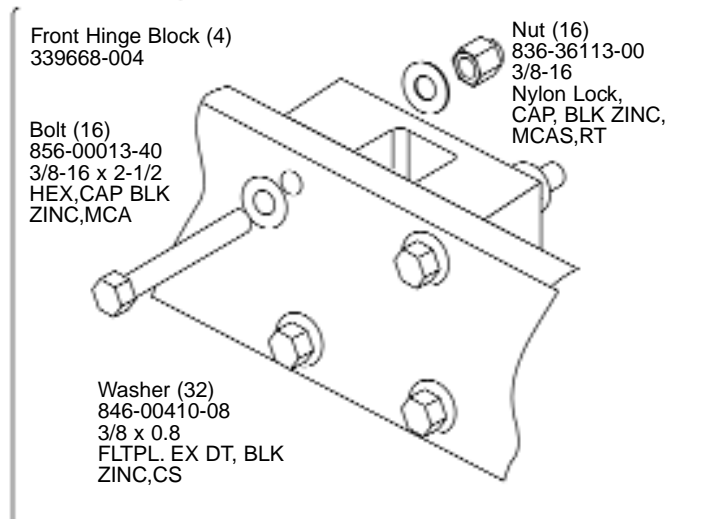
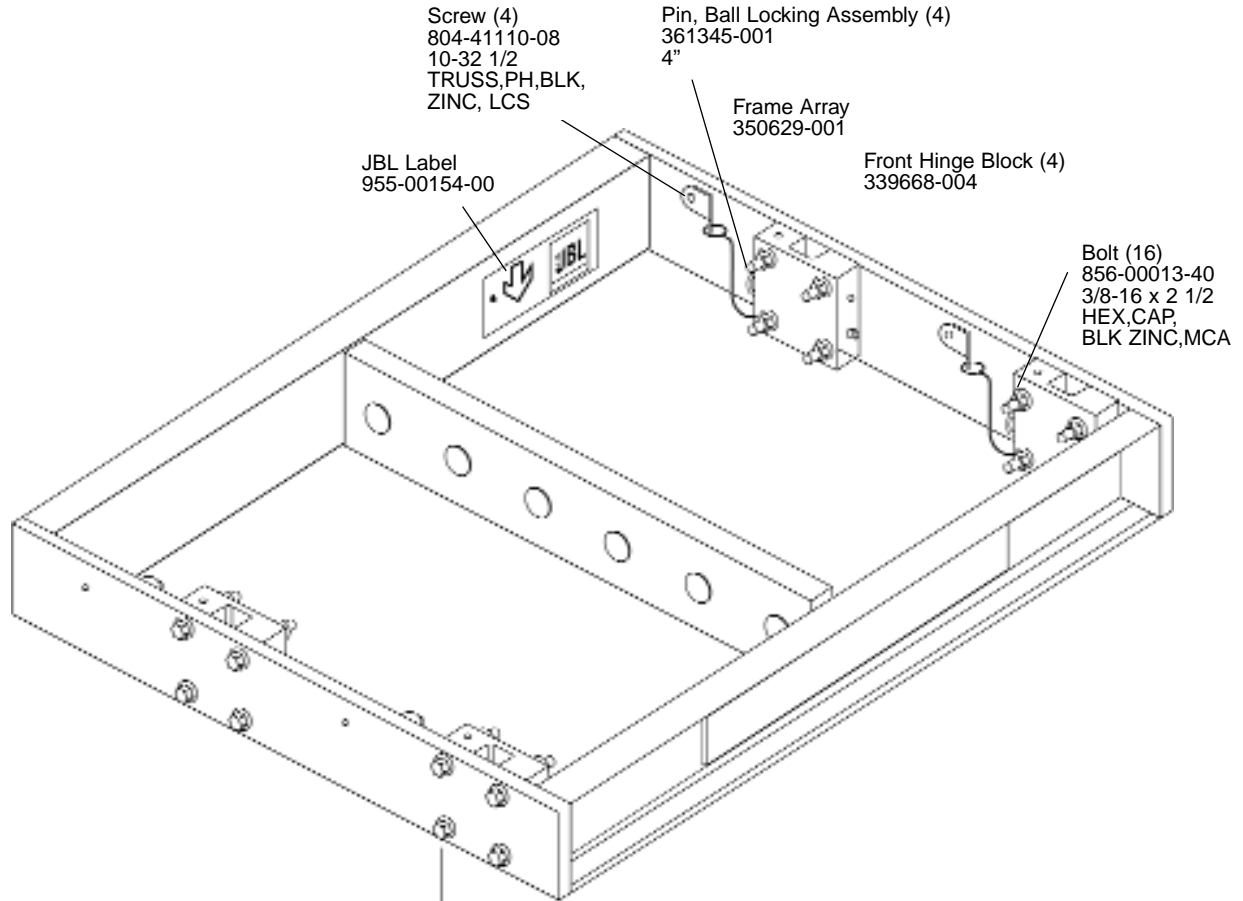
DOLLY ASSEMBLY

350401-003



JBL VT4887-SF

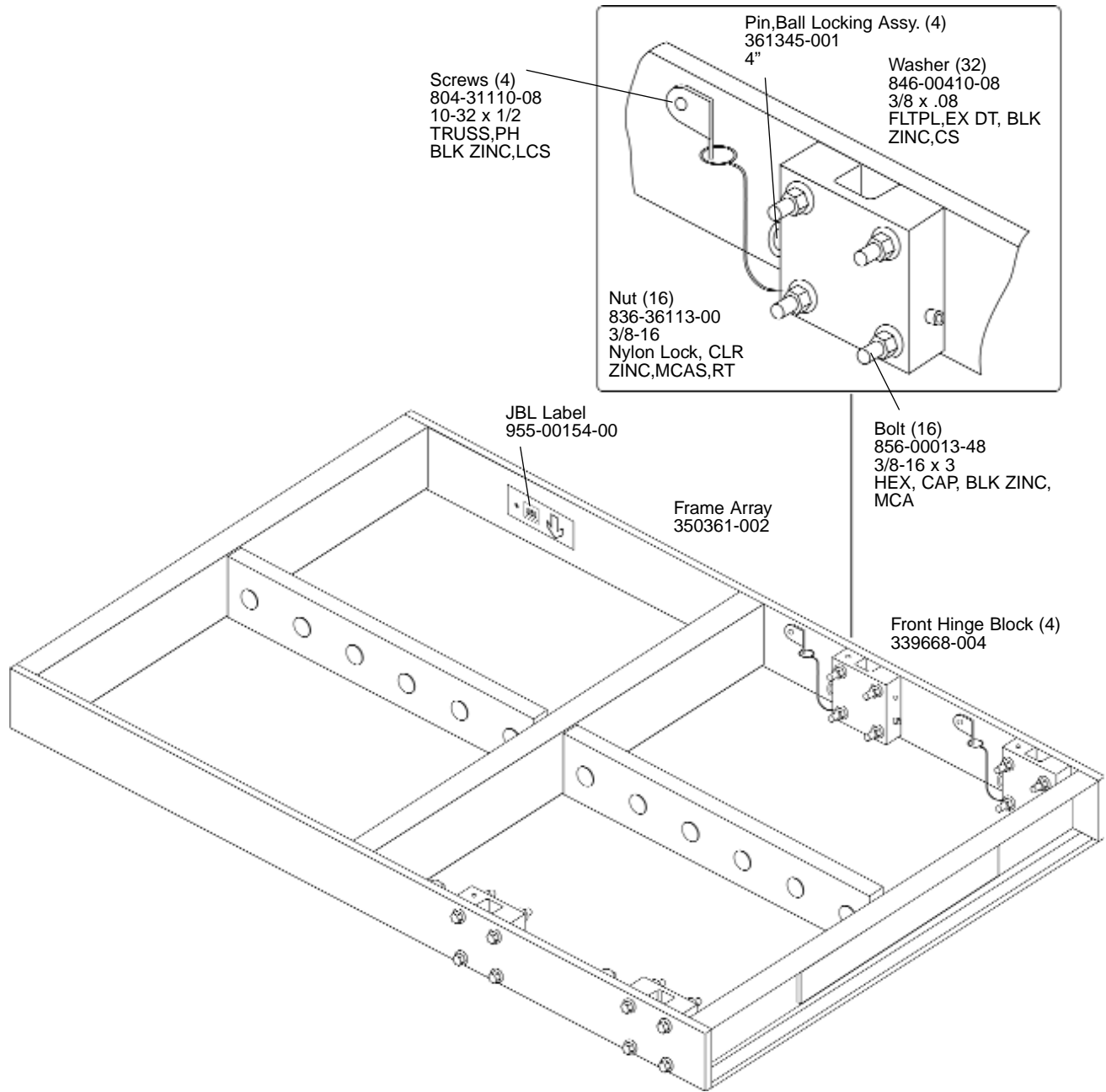
ARRAY FRAME ASSEMBLY



JBL VT4887-SF

JBL VT4887-AF

ARRAY FRAME ASSEMBLY



JBL VT4887-AF